BROOKHAVEN NATIONAL LABORATORY

U.S. DEPARTMENT OF ENERGY

# Integration of the Silicon Pixels into sPHENIX

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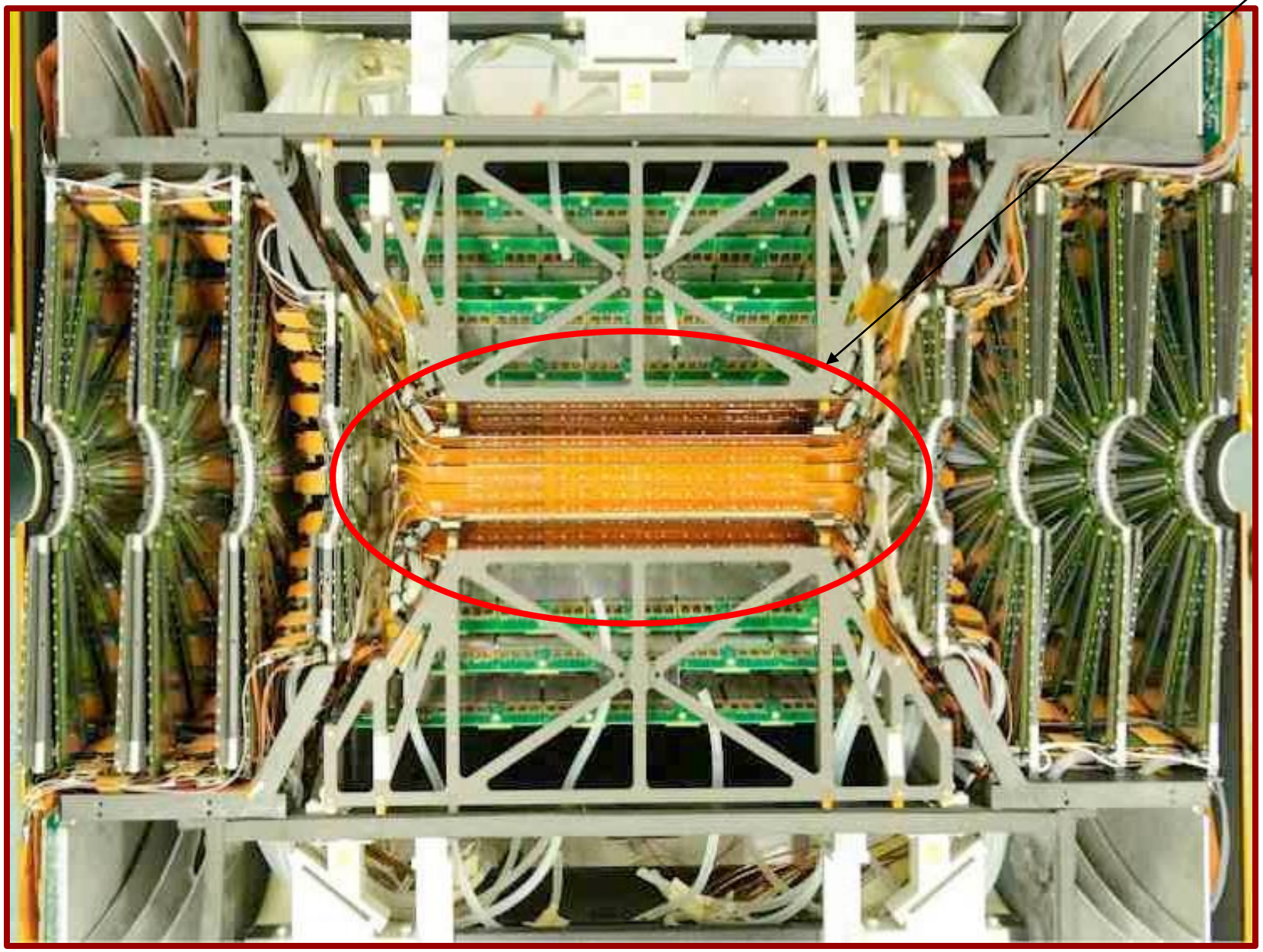
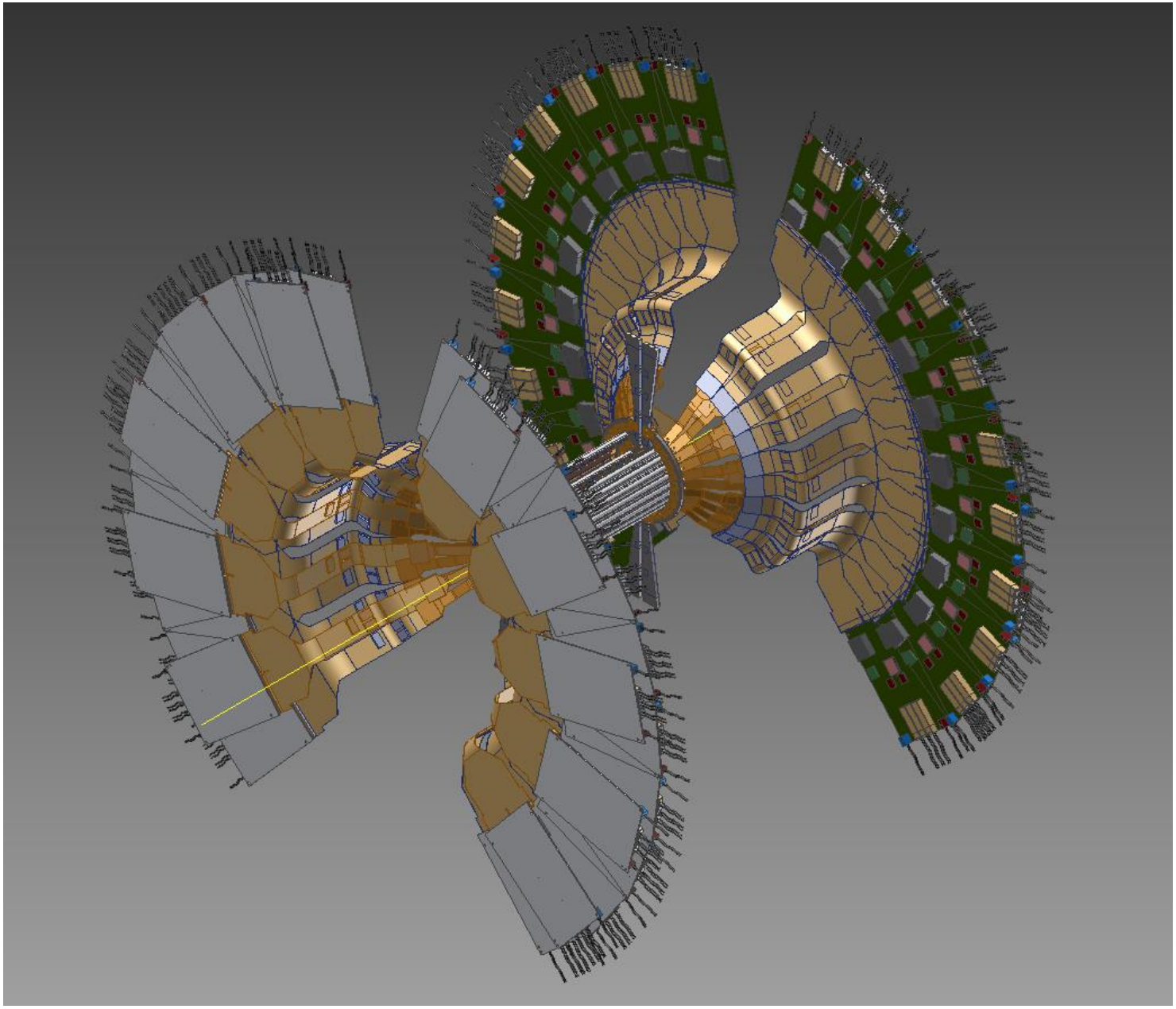
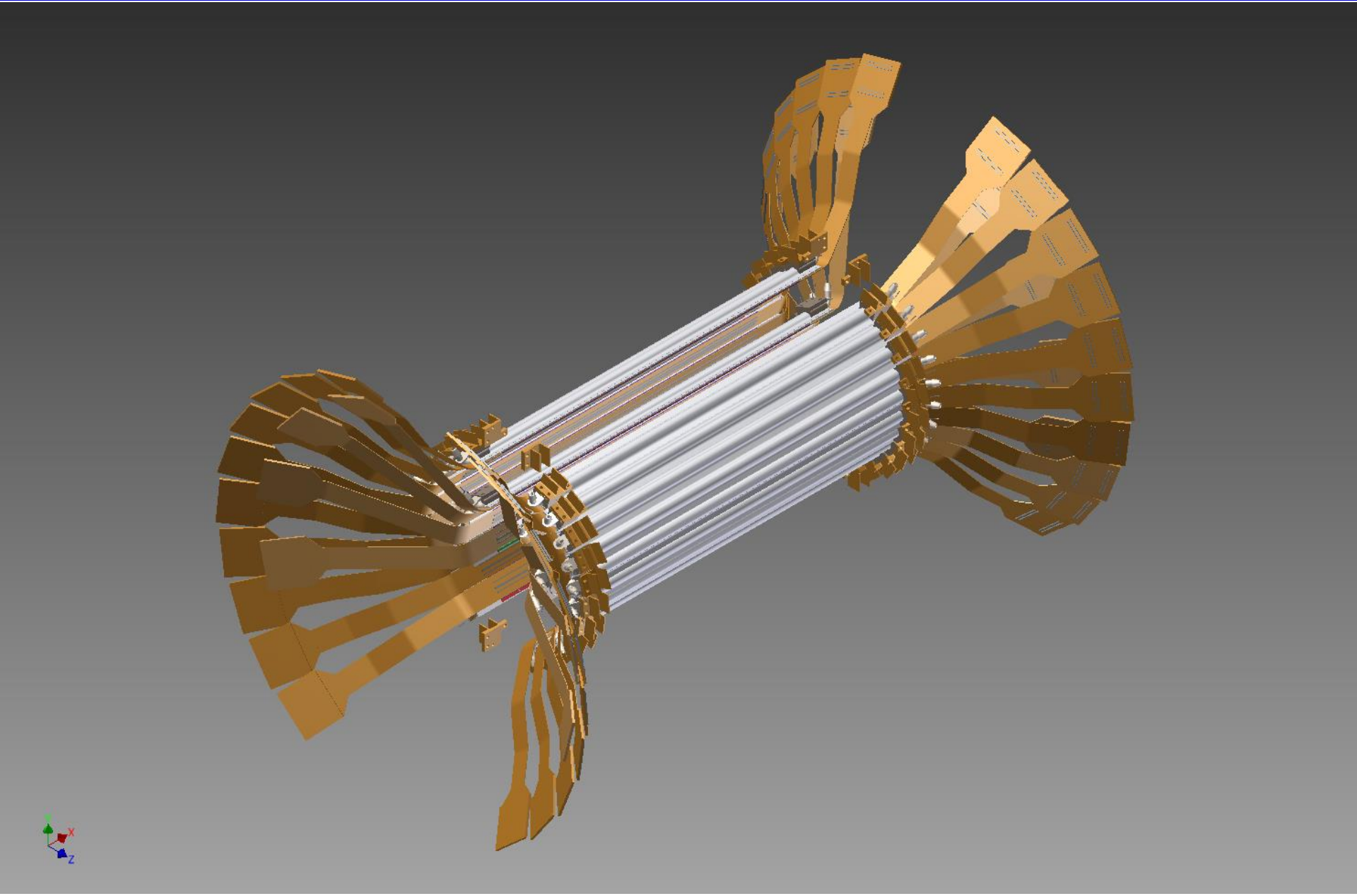
# How to integrate Silicon Pixels into sPHENIX?



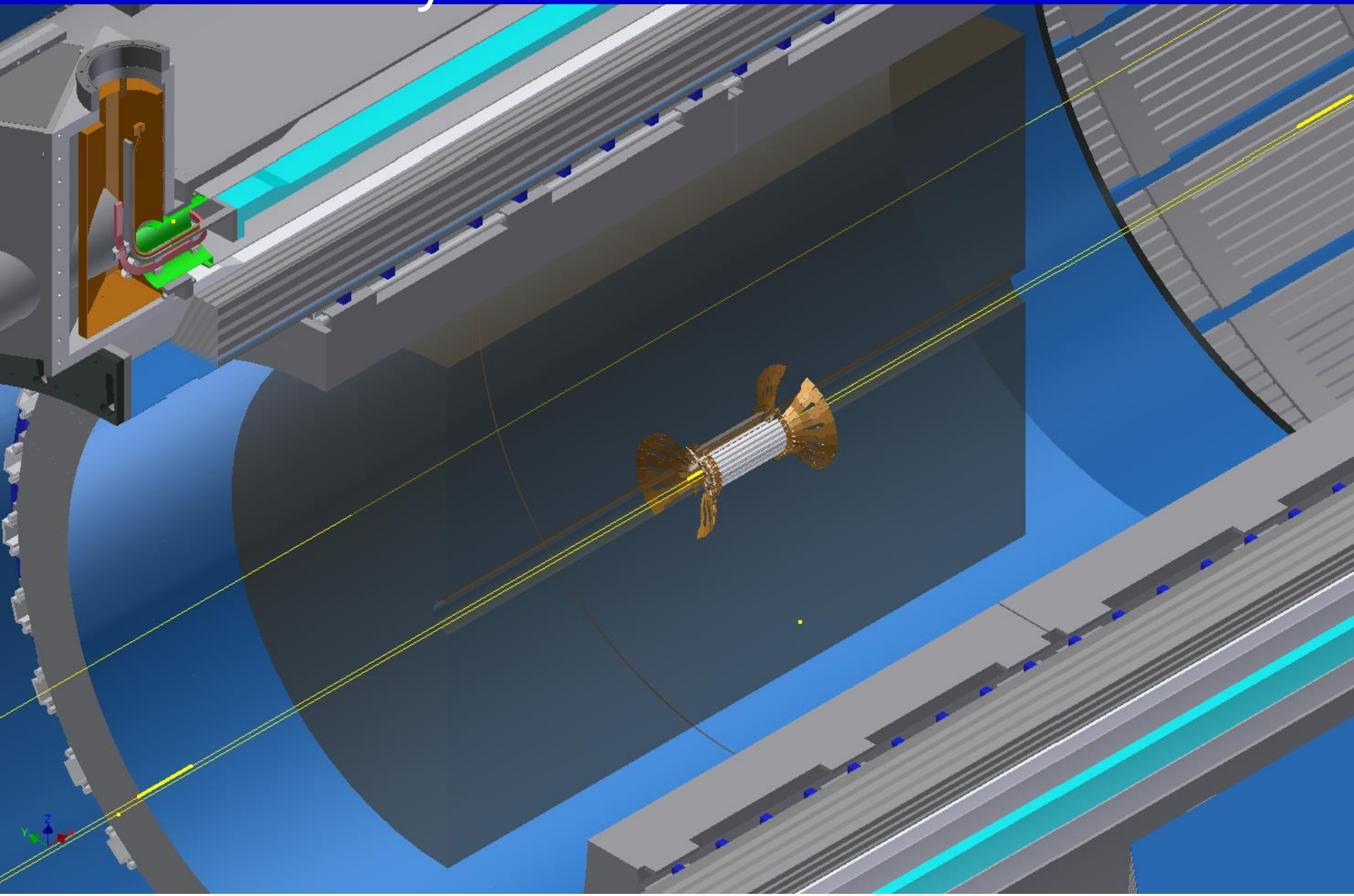
# VTX Envelope: Pixels with Full Readout Chain



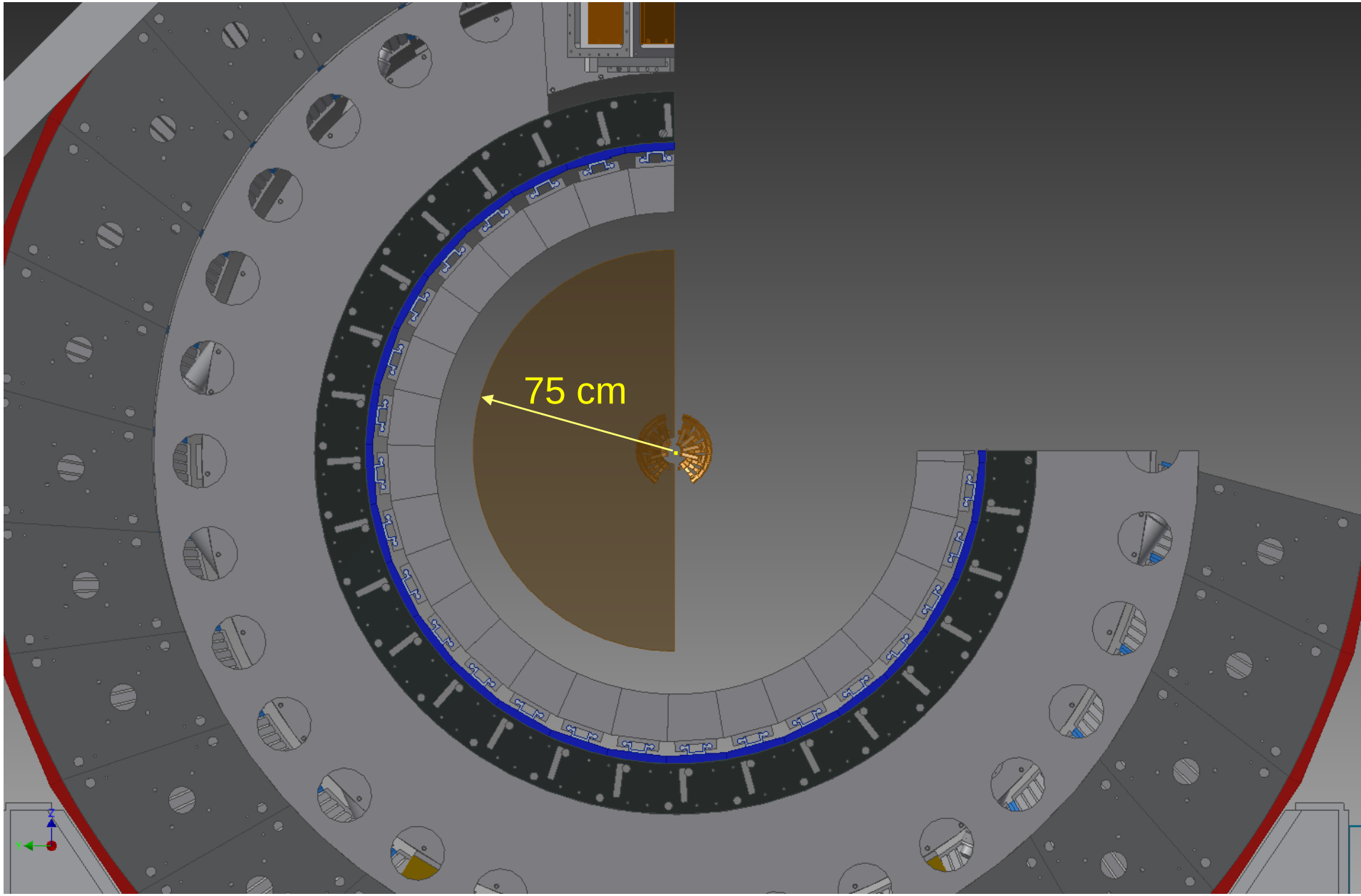
# Pixels Only: P0 and P1



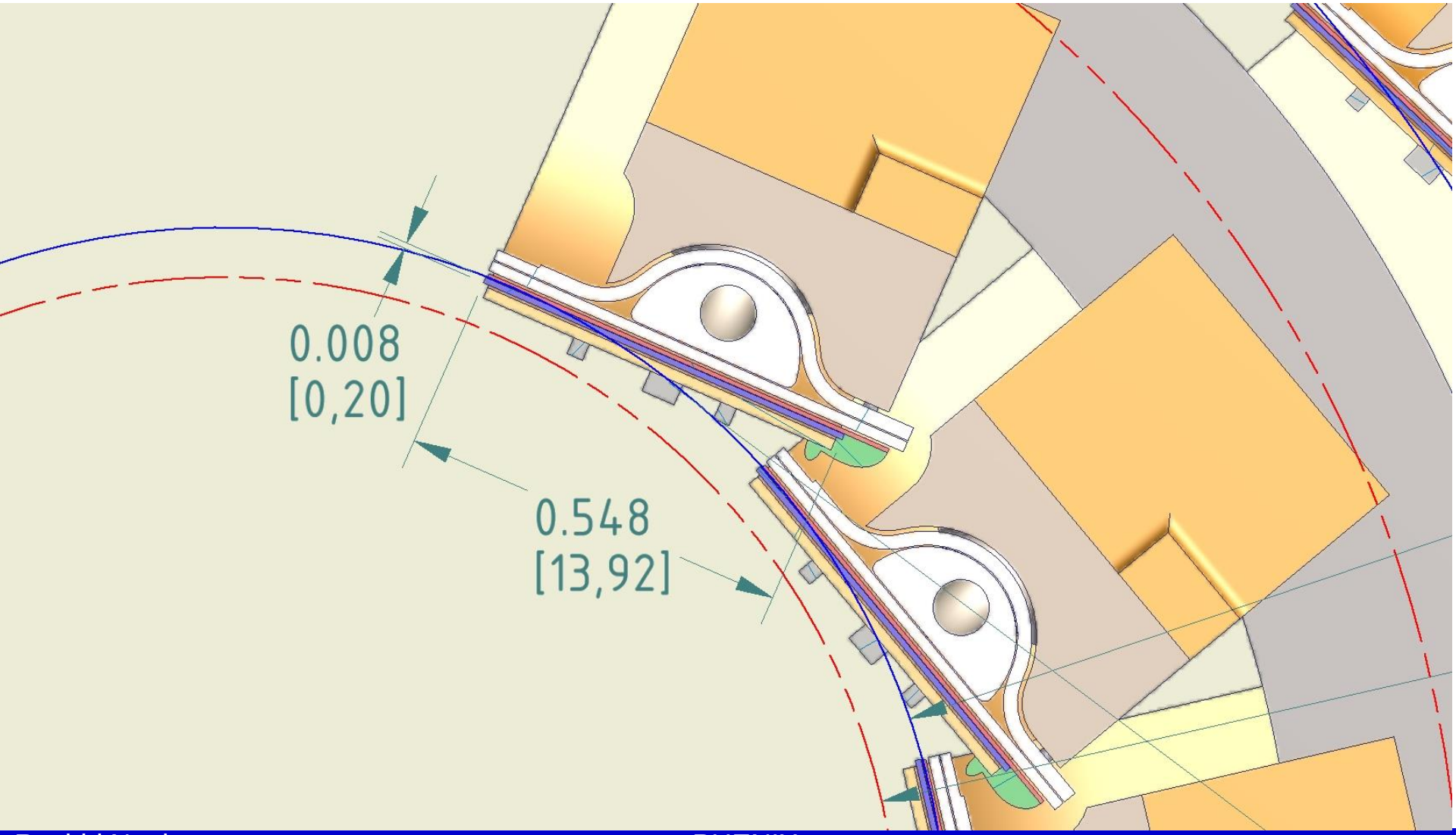
# Pixels layers P0 and P1 in sPHENIX



# Tracking Envelop in sPHENIX: 75 cm



# To do List

- How many ladders are needed for P0 and P1 to have full coverage in sPHENIX?

Knowing: $r_0$ (P0) = 2.48 cm and $r_1$ (P1)= 3.63 cm.